

WEST Search History

DATE: Sunday, March 23, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side		result set	
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
L5	(bis near5 (aminophenoxy or amino phenoxy) near5 ethane near5 tetraacetic or tetra acetic) or bapta) and (l1 or (pulmonary or lung) near50 surfactant)	10	L5
L4	bis near5 (aminophenoxy or amino phenoxy) near5 ethane near5 (tetraacetic or tetra acetic) and l1	6	L4
L3	l1 and bapta	8	L3
L2	L1 and (pulmonary or lung) near50 surfactant	3	L2
L1	424/dig.6 or 514/532 or 514/534 or 514/567 or 514/570 or 514/576 or 514/646 or 514/716 or 514/718 or 514/721	4576	L1

END OF SEARCH HISTORY

> d his ful

(FILE 'HOME' ENTERED AT 15:57:08 ON 23 MAR 2003)

FILE 'REGISTRY' ENTERED AT 15:58:09 ON 23 MAR 2003

L1 1 SEA VERAPAMIL/CN
D

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISCTI, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODEV, ...' ENTERED AT 15:58:35 ON 23 MAR 2003

L2 440 SEA VERAPAMIL (10A) CHELAT? (10A) (CALCIUM OR CA)
D 440 KWIC

D 333 KWIC

D 333 KWIC
SEA SALTURE

L3 45 SEA CALCIUM (5A) CHELAT? AND (PULMONARY OR LUNG OR LUNGS)
(5A) (CHEE STANT OR SUPERSTANTS)

(50A) (SURFACTANT OR SURFACTANTS)

L4 32 DUP REM L3 (13 DUPLICATES REMOVED)

D 1-32

D 32 IALL

D 31 TALL

D 30 IALL

D 28 IALL

D 26 TALL

D 20 KWIC

D 19 KWTC

D 15 TALL

D 14 TALL

B-14 TABB

=> d his ful

(FILE 'HOME' ENTERED AT 12:48:33 ON 23 MAR 2003)

FILE 'REGISTRY' ENTERED AT 12:48:54 ON 23 MAR 2003

L1 1 SEA BAPTA-AM

D

L2 7 SEA BAPTA

D 1-7

L3 1 SEA BAPTA/CN

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISCTI, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIOBASE, ...' ENTERED AT 12:52:27 ON 23 MAR 2003

FILE 'REGISTRY' ENTERED AT 12:52:54 ON 23 MAR 2003

SET SMARTSELECT ON

L4 SEL L1 1- CHEM : 2 TERMS

SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISCTI, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIOBASE, ...' ENTERED AT 12:52:57 ON 23 MAR 2003

L5 7023 SEA L4/BI

FILE 'REGISTRY' ENTERED AT 12:54:06 ON 23 MAR 2003

SET SMARTSELECT ON

L6 SEL L3 1- CHEM : 4 TERMS

SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISCTI, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIOBASE, ...' ENTERED AT 12:54:07 ON 23 MAR 2003

L7 20101 SEA L6/BI

L8 20103 SEA L1 OR L3 OR L5 OR L7

L9 40 SEA L8 AND (PULMONARY SURFACTANT OR PULMONARY SURFACTANTS OR LUNG SURFACTANT OR LUNG SURFACTANTS)

L10 45 SEA L8 AND (PULMONARY (5A) SURFACTANT OR PULMONARY (5A) SURFACTANTS OR (LUNG OR LUNGS) (5A) (SURFACTANT OR SURFACTANTS))

L11 50 SEA L8 AND (PULMONARY (50A) SURFACTANT OR PULMONARY (50A) SURFACTANTS OR (LUNG OR LUNGS) (50A) (SURFACTANT OR SURFACTANTS))

L12 20 DUP REM L11 (30 DUPLICATES REMOVED)

D 1-20

D 20 IALL

D 19 IALL

D 18 IALL

D 17 IALL

D 16 IALL

D 15 IALL

D 14 IALL

FILE 'STNGUIDE' ENTERED AT 13:19:24 ON 23 MAR 2003

FILE 'EMBASE, BIOSIS, CANCERLIT, CAPLUS, ESBIOBASE, IFIPAT, JICST-EPLUS, MEDLINE, PASCAL' ENTERED AT 13:25:56 ON 23 MAR 2003

D 13 IALL

FILE 'STNGUIDE' ENTERED AT 13:25:56 ON 23 MAR 2003

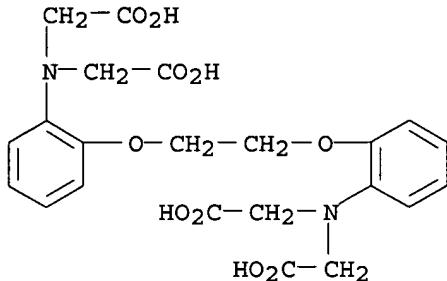
FILE 'EMBASE, BIOSIS, CANCERLIT, CAPLUS, ESBIOBASE, IFIPAT, JICST-EPLUS,
MEDLINE, PASCAL' ENTERED AT 13:26:48 ON 23 MAR 2003
D 12 IALL

FILE 'STNGUIDE' ENTERED AT 13:26:49 ON 23 MAR 2003

FILE 'EMBASE, BIOSIS, CANCERLIT, CAPLUS, ESBIOBASE, IFIPAT, JICST-EPLUS,
MEDLINE, PASCAL' ENTERED AT 13:27:18 ON 23 MAR 2003
D 11 IALL

FILE 'STNGUIDE' ENTERED AT 13:27:19 ON 23 MAR 2003

L2 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2003 ACS
RN 85233-19-8 REGISTRY
CN Glycine, N,N'-[1,2-ethanediylbis(oxy-2,1-phenylene)]bis[N-(carboxymethyl)-
(9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,2-Bis(2-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid
CN 1,2-Bis(o-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid
CN **BAPTA**
FS 3D CONCORD
MF C22 H24 N2 O10
CI COM
LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CANCERLIT,
CAPLUS, CASREACT, CEN, CHEMCATS, CSCHEM, DDFU, DRUGU, MEDLINE, MRCK*,
MSDS-OHS, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

156 REFERENCES IN FILE CA (1962 TO DATE)
28 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
156 REFERENCES IN FILE CAPLUS (1962 TO DATE)

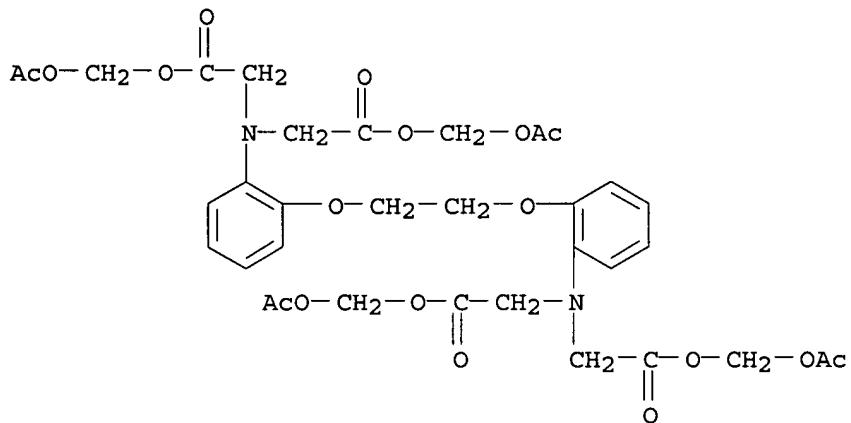
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(FILE 'HOME' ENTERED AT 12:48:33 ON 23 MAR 2003)

FILE 'REGISTRY' ENTERED AT 12:48:54 ON 23 MAR 2003

L1 1 S BAPTA-AM
L2 7 S BAPTA

L2 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2003 ACS
RN 126150-97-8 REGISTRY
CN Glycine, N,N'-[1,2-ethanediylbis(oxy-2,1-phenylene)]bis[N-[2-[(acetyloxy)methoxy]-2-oxoethyl]-, bis[(acetyloxy)methyl] ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN BAPTA-AM
FS 3D CONCORD
MF C34 H40 N2 O18
SR CA
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CHEMCATS, CSCHEM, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

51 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
51 REFERENCES IN FILE CAPLUS (1962 TO D)

ACCESSION NUMBER: 1996:289149 BIOSIS

DOCUMENT NUMBER: PREV199699011505

TITLE: Pyridine derivatives stimulate phosphatidylcholine secretion in primary cultures of rat type II pneumocytes.

AUTHOR(S): Kai, Hirofumi (1); Murahara, Koichiro; Isohama, Yoichiro; Takahama, Kazuo; Oda, Yoshiaki; Hamamura, Ichiro; Yoshitake, Kazuhisa; Miyata, Takeshi

CORPORATE SOURCE: (1) Dep. Pharmacol. Sci., Fac. Pharm. Sci., Kumamoto Univ., 5-1 Oe-honmachi, Kumamoto 862 Japan

SOURCE: Journal of Pharmacy and Pharmacology, (1996) Vol. 48, No. 1, pp. 53-56.

ISSN: 0022-3573.

DOCUMENT TYPE: Article

LANGUAGE: English

ABSTRACT:

We have examined the effects of pyridine derivatives on phosphatidylcholine secretion in primary cultures of rat type II pneumocytes. Of 12 pyridine derivatives, 4-aminopyridine, 4-dimethylaminopyridine and 4-pyrrolidinopyridine had a stimulatory effect on phosphatidylcholine secretion, whereas other derivatives had little effect. The stimulatory effect of 4-aminopyridine was concentration- and time-dependent, and was inhibited by the acetoxyethyl ester of 1,2-bis(2-aminophenoxy)

ethane -N,N,N",N"-

tetraacetic acid (3 μM), an intracellular Ca-2+ chelator.

In addition, the stimulatory effect of 4-aminopyridine was suppressed by W-7 (N-(6-aminoethyl)-5-chloro-1-naphthalene-sulphonamide) (10 μM), a calmodulin inhibitor, and sphingosine (10 μM) and staurosporine (0.1 μM), protein kinase C inhibitors. These results indicate that several pyridine derivatives stimulate phosphatidylcholine secretion in type II pneumocytes.

CONCEPT CODE: Cytology and Cytochemistry - Animal 02506
Biochemical Studies - Nucleic Acids, Purines and Pyrimidines 10062
Biochemical Studies - Proteins, Peptides and Amino Acids 10064
Biochemical Studies - Lipids 10066
Biochemical Studies - Minerals 10069
Biophysics - Membrane Phenomena *10508
Enzymes - Physiological Studies *10808
Metabolism - Lipids *13006
Blood, Blood-Forming Organs and Body Fluids - Other Body Fluids *15010
Respiratory System - Physiology and Biochemistry *16004
Pharmacology - Drug Metabolism; Metabolic Stimulators *22003
Pharmacology - Respiratory System *22030
Tissue Culture, Apparatus, Methods and Media *32500

BIOSYSTEMATIC CODE: Muridae *86375

INDEX TERMS: Major Concepts

Enzymology (Biochemistry and Molecular Biophysics);
Membranes (Cell Biology); Metabolism; Pharmacology;
Physiology; Respiratory System (Respiration)

INDEX TERMS: Chemicals & Biochemicals

PYRIDINE; 4-AMINOPYRIDINE; 4-DIMETHYLAMINOPYRIDINE;

4-PYRROLIDINOPYRIDINE; CALCIUM; PROTEIN KINASE C; KINASE

Miscellaneous Descriptors

CALMODULIN-DEPENDENT KINASE; INCREASED PULMONARY

SURFACTANT; INTRACELLULAR CALCIUM; PROTEIN KINASE

C; SIGNAL TRANSDUCTION; 4-AMINOPYRIDINE;

4-DIMETHYLAMINOPYRIDINE; 4-PYRROLIDINOPYRIDINE

ORGANISM: Super Taxa

Muridae: Rodentia, Mammalia, Vertebrata, Chordata, Animalia

ORGANISM: Organism Name
Muridae (Muridae)

ORGANISM: Organism Superterms
animals; chordates; mammals; nonhuman vertebrates; nonhuman mammals; rodents; vertebrates

REGISTRY NUMBER: 110-86-1D (PYRIDINE)
504-24-5 (4-AMINOPYRIDINE)
1122-58-3 (4-DIMETHYLAMINOPYRIDINE)
2456-81-7 (4-PYRROLIDINOPYRIDINE)
7440-70-2 (CALCIUM)
141436-78-4 (PROTEIN KINASE C)
9031-44-1 (KINASE)

=>

L12 ANSWER 18 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1993:506376 BIOSIS
DOCUMENT NUMBER: PREV199396130383
TITLE: Calcium-dependent chloride secretion across cultures of human tracheal surface epithelium and glands.
AUTHOR(S): Yamaya, M. (1); Ohrui, T.; Finkbeiner, W. E.; Widdicombe, J. H.
CORPORATE SOURCE: (1) Cystic Fibrosis Res. Cent., Cardiovascular Res. Inst., Dep. Physiol. and Pathol., Univ. Calif., San Francisco, CA 94143 USA
SOURCE: American Journal of Physiology, (1993) Vol. 265, No. 2 PART 1, pp. L170-L177.
ISSN: 0002-9513.
DOCUMENT TYPE: Article
LANGUAGE: English
ABSTRACT:
Surface epithelium and gland cells from human trachea were cultured on porous-bottom inserts and loaded with fura 2 to permit measurement of the intracellular calcium concentration ($(Ca-2+)_i$). Short-circuit current (I-sc), an index of transepithelial active ion transport, was measured on cells from the same cultures. Surface epithelial $(Ca-2+)_i$ of 82 \pm 15 nM was increased transiently by isoproterenol, histamine, and bradykinin with maximal increases of 88 \pm 17, 480 \pm 149, and 978 \pm 214 nM (n = 15), respectively. Baseline $(Ca-2+)_i$ in cultured gland cells of 68 \pm 11 nM was increased transiently by isoproterenol, histamine, methacholine, and bradykinin with maximal increases of 105 \pm 19, 233 \pm 47, 327 \pm 121, and 634 \pm 151 nM (n = 17-21), respectively. In both cell types, mediators that increased $(Ca-2+)_i$ also increased I-sc with a time course identical to the increase in $(Ca-2+)_i$. Pretreatment with the calcium chelator, 1,2-bis-(****2**** -aminophenoxy)ethane N,N,
****N**** ',N'-tetraacetic acid, acetoxyethyl ester (BAPTA-AM), had no effect on basal I-sc or transepithelial resistance but markedly inhibited both the I-sc and $(Ca-2+)_i$ responses to agonists. Forskolin (10-5 M), 3-isobutyl-1-methylxanthine (10-3 M), dibutyryl adenosine 3',5'-cyclic monophosphate (10-3 M), and 8-(4-chlorophenylthio)-cAMP (10-3 M) had no or only trivial effects on I-sc and $(Ca-2+)_i$. We suggest that mediators increase I-sc across human airway epithelium by activating Ca-dependent basolateral K channels, resulting in hyperpolarization and an increased driving force for Cl⁻ exit through apical membrane Cl channels.
CONCEPT CODE: Cytology and Cytochemistry - Human *02508
Genetics and Cytogenetics - Human *03508
Biochemical Studies - Minerals 10069
Metabolism - Minerals *13010
Metabolism - Metabolic Disorders *13020
Cardiovascular System - Physiology and Biochemistry *14504
Respiratory System - Physiology and Biochemistry *16004
Developmental Biology - Embryology - Pathological *25503
In Vitro Studies, Cellular and Subcellular *32600
BIOSYSTEMATIC CODE: Hominidae *86215
INDEX TERMS: Major Concepts
Cardiovascular System (Transport and Circulation); Cell Biology; Development; Genetics; Metabolism; Respiratory System (Respiration)
INDEX TERMS: Chemicals & Biochemicals
CALCIUM; CHLORIDE
INDEX TERMS: Miscellaneous Descriptors
ADULT RESPIRATORY DISTRESS SYNDROME; FIBRINOGENOLYSIS;
HYALINE MEMBRANE; PHOSPHOLIPID; PULMONARY SURFACTANT
ORGANISM: Super Taxa
Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia

ORGANISM: Organism Name
 Hominidae (Hominidae)
ORGANISM: Organism Superterms
 animals; chordates; humans; mammals; primates; vertebrates
REGISTRY NUMBER: 7440-70-2 (CALCIUM)
 16887-00-6 (CHLORIDE)

=>

L12 ANSWER 19 OF 20 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.DUPLICATE 10
ACCESSION NUMBER: 92187947 EMBASE
DOCUMENT NUMBER: 1992187947
TITLE: Signal transduction mechanisms of C1q-mediated superoxide production: Evidence for the involvement of temporally distinct staurosporine-insensitive and -sensitive pathways.
AUTHOR: Goodman E.B.; Tenner A.J.
CORPORATE SOURCE: Molecular Biology/Biochemistry Dept., 3205 Biosciences II, University of California, Irvine, CA 92717, United States
SOURCE: Journal of Immunology, (1992) 148/12 (3920-3928).
ISSN: 0022-1767 CODEN: JOIMA3
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 026 Immunology, Serology and Transplantation
029 Clinical Biochemistry
LANGUAGE: English
SUMMARY LANGUAGE: English
ABSTRACT:
C1q, a plasma glycoprotein and the recognition component of the classical complement pathway, interacts with specific cells of the immune system resulting in the enhancement of cell function. For example, interaction of C1q with its cell-surface receptor on neutrophils induces the activation of the respiratory burst, a finding previously documented using a chemiluminescent assay to detect oxygen radical formation. In an alternative approach we have now used a modified cytochrome c reduction assay to characterize C1q-mediated production of superoxide anion (O_2^-) in more detail. C1q coated to microtiter wells induced O_2^- release, which occurred after a lag period of 10 to 20 min, and was then sustained over approximately 1 h. O_2^- production could be triggered by the purified pepsin-resistant, collagen-like fragment of C1q, but not by mannose-binding protein and **pulmonary surfactant** protein A, proteins that also contain collagen-like domains. Concentrations of C1q which promoted a vigorous O_2^- generation did not induce release of neutrophil primary granules and caused little or no secondary granule release. Investigation of the biochemical events mediating C1q stimulated O_2^- production by neutrophils revealed that the response invoked two biochemical pathways with distinct sensitivities to previously described inhibitors. A role for Ca^{2+} in initiation of the response was suggested by the inhibitory effect of EGTA, the calmodulin antagonist W7, and the intracellular Ca^{2+} chelator **BAPTA**. The protein kinase inhibitor staurosporine did not inhibit the induction of the response, but did block that component of the response occurring after approximately 30 min. Neither phase of C1q-mediated O_2^- production was inhibited by pertussis toxin, a strong inhibitor of the G-protein-coupled FMLP-mediated response. In summary, C1q-triggered O_2^- production is relatively unique both in terms of the kinetics of the response and the biochemical pathways evoked. These data support the hypothesis that more than one biochemical pathway induced by ligand-receptor interaction can activate the neutrophil NADPH oxidase.
CONTROLLED TERM: Medical Descriptors:
*cell function
*signal transduction
article
controlled study
degranulation
enzyme activation
human
human cell
neutrophil
normal human
priority journal
reduction
respiratory burst
Drug Descriptors:

*complement component c1q: EC, endogenous compound
*cytochrome c: EC, endogenous compound
*oxygen radical: EC, endogenous compound
*staurosporine
*superoxide: EC, endogenous compound
binding protein
egtazic acid
ethylene glycol 1,2 bis(2 aminophenyl) ether n,n,n',n'
tetraacetic acid
formylmethionylleucylphenylalanine
guanine nucleotide binding protein: EC, endogenous compound
lung surfactant
mannose
n (6 aminohexyl) 5 chloro 1 naphthalenesulfonamide
pertussis toxin
protein a
reduced nicotinamide adenine dinucleotide phosphate
oxidase: EC, endogenous compound
(complement component c1q) 80295-33-6; (cytochrome c)
9007-43-6, 9064-84-0; (staurosporine) 62996-74-1;
(superoxide) 11062-77-4; (egtazic acid) 67-42-5; (ethylene
glycol 1,2 bis(2 aminophenyl) ether n,n,n',n' tetraacetic
acid) 73630-08-7; (**lung surfactant**)
99732-49-7; (mannose) 31103-86-3, 3458-28-4; (n (6
aminohexyl) 5 chloro 1 naphthalenesulfonamide) 65595-90-6;
(pertussis toxin) 70323-44-3; (reduced nicotinamide adenine
dinucleotide phosphate oxidase) 9032-22-8

CAS REGISTRY NO.:

=>

RN 126150-97-8 REGISTRY

CN Glycine, N,N'-[1,2-ethanediylbis(oxy-2,1-phenylene)]bis[N-[2-[(acetyloxy)methoxy]-2-oxoethyl]-, bis[(acetyloxy)methyl] ester (9CI) (CA INDEX NAME)

OTHER NAMES:

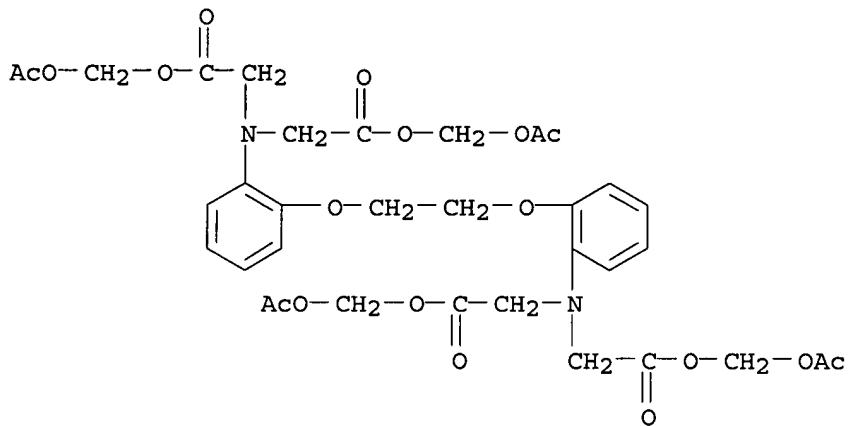
CN BAPTA-AM

FS 3D CONCORD

MF C34 H40 N2 O18

SR CA

LC STN Files: AGRICOLA, BIOPHARMA, BIOSIS, CA, CAPLUS, CHEMCATS, CSCHEM, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

46 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

46 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L4 ANSWER 30 OF 32 MEDLINE DUPLICATE 6
ACCESSION NUMBER: 84154735 MEDLINE
DOCUMENT NUMBER: 84154735 PubMed ID: 6422991
TITLE: Role of calcium ions the structure and function of
pulmonary surfactant.
AUTHOR: Benson B J; Williams M C; Sueishi K; Goerke J; Sargeant T
CONTRACT NUMBER: HL-24075 (NHLBI)
SOURCE: BIOCHIMICA ET BIOPHYSICA ACTA, (1984 Mar 27) 793 (1) 18-27.
Journal code: 0217513. ISSN: 0006-3002.
PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198405
ENTRY DATE: Entered STN: 19900319
Last Updated on STN: 19970203
Entered Medline: 19840507
ABSTRACT:
Pulmonary surfactant isolated by centrifugation in buffers containing ions contains at least three different morphologic structures. The presence of one of these, tubular myelin, is dependent on calcium ions, since chelation of the calcium ions causes disruption of this structure. Addition of EDTA also decreases the ability of the ***surfactant*** to absorb rapidly to air-water interfaces and lower surface tension. Titration with calcium ions (2.5 or 5 mM) restores rapid surface adsorption and restores the tubular myelin structural forms. Magnesium ions cannot substitute for calcium ions in these processes. The reversibility of structure and function induced by calcium ions and EDTA is also accompanied by reversible isopycnic density shifts probably related to aggregation and disaggregation of the lipid-protein complex with calcium ions and EDTA, respectively.
CONTROLLED TERM: Check Tags: Animal; Female; Male; Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S.
*Calcium
Dogs
Eddetic Acid
Microscopy, Electron
Myelin Proteins: AN, analysis
Phospholipids: AN, analysis
*Pulmonary Surfactants
Pulmonary Surfactants: AN, analysis
Pulmonary Surfactants: IP, isolation & purification
CAS REGISTRY NO.: 60-00-4 (Eddetic Acid); 7440-70-2 (Calcium)
CHEMICAL NAME: 0 (Myelin Proteins); 0 (Phospholipids); 0 (Pulmonary Surfactants)

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